

STENT DELIVERY SYSTEM WITH MEMBRANE

ABSTRACT OF THE DISCLOSURE

Attorney's Office
S63.2-10083

A stent delivery system comprising a catheter. The catheter having a catheter
5 shaft, and a balloon mounted thereto. A stent is disposed about at least a portion of the
balloon. The stent having an unexpanded state and an expanded state. The stent being
retained on the balloon in the unexpanded state by at least one sleeve. The at least one
sleeve having a first portion engaged to the catheter and a second portion at least partially
10 overlaying an end of the stent when the stent is in the unexpanded state. At least one
membrane is disposed about a portion of the stent. The at least one membrane
constructed and arranged to prevent portions of the stent thereunder from flaring out
during advancement of the catheter.

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Attorney Docket #S63.2-10083

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